

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTATDH1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 DEC 01 ChemPort single article sales feature unavailable  
NEWS 3 APR 03 CAS coverage of exemplified prophetic substances  
enhanced  
NEWS 4 APR 07 STN is raising the limits on saved answers  
NEWS 5 APR 24 CA/CAPLUS now has more comprehensive patent assignee  
information  
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent  
assignment/reassignment information  
NEWS 7 APR 28 CAS patent authority coverage expanded  
NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced  
NEWS 9 APR 28 Limits doubled for structure searching in CAS  
REGISTRY  
NEWS 10 MAY 08 STN Express, Version 8.4, now available  
NEWS 11 MAY 11 STN on the Web enhanced  
NEWS 12 MAY 11 BEILSTEIN substance information now available on  
STN Easy  
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased  
limits for exact sequence match searches and  
introduction of free HIT display format  
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal  
status data  
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in  
records back to 1992  
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching  
enhanced on STN  
NEWS 17 JUN 25 NUTRACEUT and PHARMAML discontinued  
  
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN customer  
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for software development or design, implementation of commercial  
gateways, or use of CAS and STN data in the building of commercial  
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and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:20:59 ON 25 JUN 2009

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 13:21:36 ON 25 JUN 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 JUN 2009 HIGHEST RN 1159631-40-9  
DICTIONARY FILE UPDATES: 23 JUN 2009 HIGHEST RN 1159631-40-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

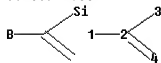
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\TDB PTA\Application Examination\Series 10\10 544211\STN\STN 10 544211  
062509AA.str



chain nodes :

2 3 4

ring nodes :

1

chain bonds :

1-2 2-3 2-4

exact bonds :

1-2 2-3 2-4

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS

L1 STRUCTURE LOADED

=> D

L1 HAS NO ANSWERS

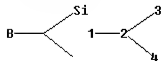
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\YTDH PTAWApplication Examination\Series 10\10 544211\YSTN\YSTN 10 544211  
062509AB.str



chain nodes :

2 3 4

ring nodes :

1

chain bonds :

1-2 2-3 2-4

exact bonds :

1-2 2-3 2-4

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS

L2 STRUCTURE UPLOADED

=> D

L2 HAS NO ANSWERS

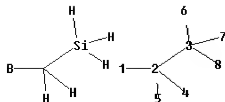
L2 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\YTDH PTAWApplication Examination\Series 10\10 544211\YSTN\YSTN 10 544211  
062509AC.str



```

chain nodes :
2 3 4 5 6 7 8
ring nodes :
1
chain bonds :
1-2 2-3 2-4 2-5 3-6 3-7 3-8
exact bonds :
1-2 2-3 2-4 2-5 3-6 3-7 3-8

```

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L3 STRUCTURE UPLOADED

=> D

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 13:22:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 110 TO ITERATE

100.0% PROCESSED 110 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1571 TO 2829

PROJECTED ANSWERS: 8 TO 329

L4 8 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 13:22:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1882 TO ITERATE

100.0% PROCESSED 1882 ITERATIONS

110 ANSWERS

SEARCH TIME: 00.00.01

L5 110 SEA SSS FUL L1

=> S L2

SAMPLE SEARCH INITIATED 13:23:21 FILE 'REGISTRY'

SCREENING

SAMPLE SCREEN SEARCH COMPLETED - 451 TO ITERATE

100.0% PROCESSED 451 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.20

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 7746 TO 10294

PROJECTED ANSWERS: 5 TO 234

L6 5 SEA SSS SAM L2

=> S L2 SSS FULL

FULL SEARCH INITIATED 13:23:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8637 TO ITERATE

100.0% PROCESSED 8637 ITERATIONS

86 ANSWERS

SEARCH TIME: 00.00.01

L7 86 SEA SSS FUL L2

=> S L3

SAMPLE SEARCH INITIATED 13:24:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 451 TO ITERATE

100.0% PROCESSED 451 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 7746 TO 10294

PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L3

=> S L3 SSS FULL

FULL SEARCH INITIATED 13:24:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8641 TO ITERATE

100.0% PROCESSED 8641 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L9 1 SEA SSS FUL L3

=> D L9

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 524066-86-2 REGISTRY

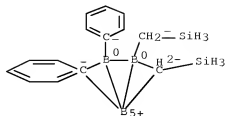
ED Entered STN: 02 Jun 2003

CN Boron,  $\mu$ -phenylphenyl(silylmethyl)[ $\mu$ -(silylmethylene)]tri- (9CI)  
(CA INDEX NAME)

MF C14 H19 B3 S12

CI CCS

SR CA  
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> D HIS

(FILE 'HOME' ENTERED AT 13:20:59 ON 25 JUN 2009)

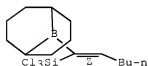
FILE 'REGISTRY' ENTERED AT 13:21:36 ON 25 JUN 2009

L1 STRUCTURE UPLOADED  
L2 STRUCTURE UPLOADED  
L3 STRUCTURE UPLOADED  
L4 8 S L1  
L5 110 S L1 SSS FULL  
L6 5 S L2  
L7 86 S L2 SSS FULL  
L8 0 S L3  
L9 1 S L3 SSS FULL

=> D L5 SCAN

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(trichlorosilyl)-1-hexen-1-yl]-  
MF C14 H24 B Cl3 Si

Double bond geometry as shown.



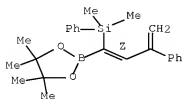
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborolane, 2-[(1Z)-1-(dimethylphenylsilyl)-3-phenyl-1,3-butadien-1-yl]-4,4,5,5-tetramethyl-

MF C24 H31 B O2 Si

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

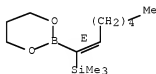
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 1,3,2-Dioxaborinane, 2-[(1E)-1-(trimethylsilyl)-1-hepten-1-yl]-

MF C13 H27 B O2 Si

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

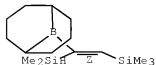
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(dimethylsilyl)-2-(trimethylsilyl)ethenyl]-

MF C15 H31 B Si2

Double bond geometry as shown.



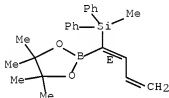
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborolane, 4,4,5,5-tetramethyl-2-[(1E)-1-(methyldiphenylsilyl)-  
1,3-butadien-1-yl]-  
MF C23 H29 B O2 Si

Double bond geometry as shown.



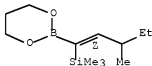
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborinane, 2-[(1Z)-3-methyl-1-(trimethylsilyl)-1-penten-1-yl]-  
MF C12 H25 B O2 Si

Double bond geometry as shown.

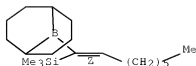


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Borabicyclo[3.3.1]nonane, 9-[1-(trimethylsilyl)-1-octenyl]-, (Z)- (9CI)  
MF C19 H37 B Si

Double bond geometry as shown.

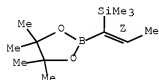


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3,2-Dioxaborolane, 4,4,5,5-tetramethyl-2-[1-(trimethylsilyl)-1-propenyl]-  
 , (Z)- (9CI)  
 MF C12 H25 B O2 Si

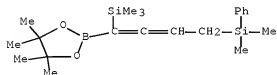
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3,2-Dioxaborolane, 2-[4-(dimethylphenylsilyl)-1-(trimethylsilyl)-1,2-butadien-1-yl]-4,4,5,5-tetramethyl-  
 MF C21 H35 B O2 Si2



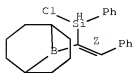
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(chlorophenylsilyl)-2-phenylethenyl]-

MF C22 H26 B Cl Si

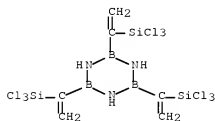
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Borazine, 2,4,6-tris[1-(trichlorosilyl)ethenyl]-  
MF C6 H9 B3 Cl9 N3 Si3

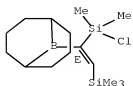


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Borabicyclo[3.3.1]nonane, 9-[(1E)-1-(chlorodimethylsilyl)-2-(trimethylsilyl)ethenyl]-  
MF C15 H30 B Cl Si2

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

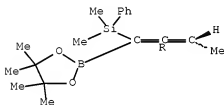
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 1,3,2-Dioxaborolane, 2-[(1R)-1-(dimethylphenylsilyl)-1,2-butadienyl]-  
4,4,5,5-tetramethyl- (9CI)

MF C18 H27 B O2 Si

Absolute stereochemistry. Rotation (-).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

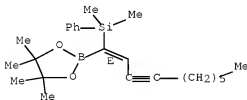
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 1,3,2-Dioxaborolane, 2-[(1E)-1-(dimethylphenylsilyl)-1-decen-3-yn-1-yl]-  
4,4,5,5-tetramethyl-

MF C24 H37 B O2 Si

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

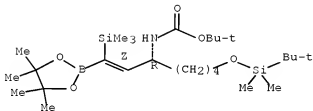
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN Carbamic acid, [(1R)-5-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-[(1Z)-2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-(trimethylsilyl)ethenyl]pentyl]-, 1,1-dimethylethyl ester (9CI)  
 MF C27 H56 B N O5 Si2

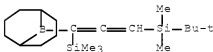
Absolute stereochemistry. Rotation (+).  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 9-Borabicyclo[3.3.1]nonane, 9-[3-[(1,1-dimethylethyl)dimethylsilyl]-1-(trimethylsilyl)-1,2-propadien-1-yl]-  
 MF C20 H39 B Si2

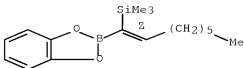


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3,2-Benzodioxaborole, 2-[1-(trimethylsilyl)-1-octenyl]-, (Z)- (9CI)  
 MF C17 H27 B O2 Si

Double bond geometry as shown.

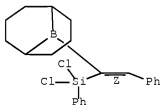


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(dichlorophenylsilyl)-2-phenylethenyl]-  
MF C22 H25 B Cl2 Si

Double bond geometry as shown.

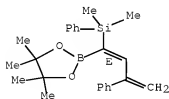


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborolane, 2-[(1E)-1-(dimethylphenylsilyl)-3-phenyl-1,3-butadien-1-yl]-4,4,5,5-tetramethyl-  
MF C24 H31 B O2 Si

Double bond geometry as shown.



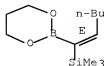
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborinane, 2-[(1E)-1-(trimethylsilyl)-1-hexen-1-yl]-

MF C12 H25 B O2 Si

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

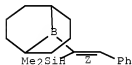
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(dimethylsilyl)-2-phenylethenyl]-

MF C18 H27 B Si

Double bond geometry as shown.



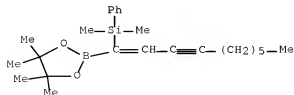
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 1,3,2-Dioxaborolane, 2-[1-(dimethylphenylsilyl)-1-decen-3-yn-1-yl]-4,4,5,5-tetramethyl-

MF C24 H37 B O2 Si

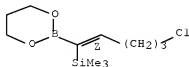


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborinane, 2-[(1Z)-5-chloro-1-(trimethylsilyl)-1-penten-1-yl]-  
MF C11 H22 B Cl O2 Si

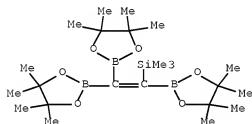
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Dioxaborolane, 2,2',2''-[1-(trimethylsilyl)-1-ethenyl-2-ylidene]tris[4,4,5,5-tetramethyl- (9CI)  
MF C23 H45 B3 O6 Si

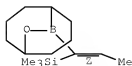


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Oxa-10-borabicyclo[3.3.2]decane,  
10-[(1Z)-1-(trimethylsilyl)-1-propen-1-yl]-  
MF C14 H27 B O Si

Double bond geometry as shown.





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

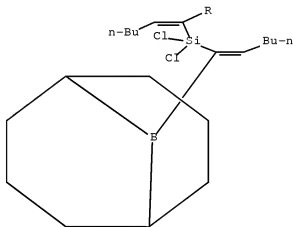
L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Borabicyclo[3.3.1]nonane, 9,9'-[(dichlorosilylene)di-(1Z)-1-hexen-1-ylidene]bis-  
MF C28 H48 B2 Cl2 Si

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

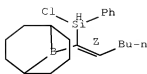


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(chlorophenylsilyl)-1-hexen-1-yl]-  
MF C20 H30 B Cl Si

Double bond geometry as shown.

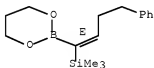


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3,2-Dioxaborinane, 2-[(1E)-4-phenyl-1-(trimethylsilyl)-1-buten-1-yl]-  
 MF C16 H25 B O2 Si

Double bond geometry as shown.

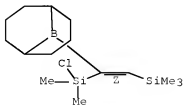


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(chlorodimethylsilyl)-2-(trimethylsilyl)ethenyl]-  
 MF C15 H30 B Cl Si2

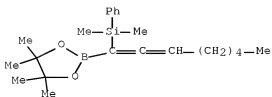
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3,2-Dioxaborolane, 2-[1-(dimethylphenylsilyl)-1,2-octadien-1-yl]-4,4,5,5-tetramethyl-  
 MF C22 H35 B O2 Si

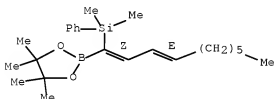


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3,2-Dioxaborolane, 2-[(1Z,3E)-1-(dimethylphenylsilyl)-1,3-decadien-1-yl]-4,4,5,5-tetramethyl-  
 MF C24 H39 B O2 Si

Double bond geometry as shown.

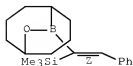


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 9-Oxa-10-borabicyclo[3.3.2]decane, 10-[(1Z)-2-phenyl-1-(trimethylsilyl)ethenyl]-  
 MF C19 H29 B O Si

Double bond geometry as shown.

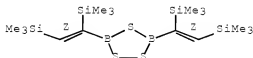


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,2,4,3,5-Trithiadiborolane, 3,5-bis[1,2-bis(trimethylsilyl)ethenyl]-,  
(Z,Z)- (9CI)  
MF C16 H38 B2 S3 Si4

Double bond geometry as shown.

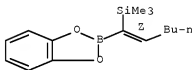


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 110 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1,3,2-Benzodioxaborole, 2-[1-(trimethylsilyl)-1-hexenyl]-, (Z)- (9CI)  
MF C15 H23 B O2 Si

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):  
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTATDH1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 DEC 01 ChemPort single article sales feature unavailable  
NEWS 3 APR 03 CAS coverage of exemplified prophetic substances  
enhanced  
NEWS 4 APR 07 STN is raising the limits on saved answers  
NEWS 5 APR 24 CA/CAPLUS now has more comprehensive patent assignee  
information  
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent  
assignment/reassignment information  
NEWS 7 APR 28 CAS patent authority coverage expanded  
NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced  
NEWS 9 APR 28 Limits doubled for structure searching in CAS  
REGISTRY  
NEWS 10 MAY 08 STN Express, Version 8.4, now available  
NEWS 11 MAY 11 STN on the Web enhanced  
NEWS 12 MAY 11 BEILSTEIN substance information now available on  
STN Easy  
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased  
limits for exact sequence match searches and  
introduction of free HIT display format  
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal  
status data  
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in  
records back to 1992  
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching  
enhanced on STN  
NEWS 17 JUN 25 NUTRACEUT and PHARMAML discontinued  
  
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
— AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that  
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\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 16:15:09 ON 25 JUN 2009

=> d his

(FILE 'HOME' ENTERED AT 16:15:09 ON 25 JUN 2009)





=> FILE REGISTRY  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.30	3.30

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:24:08 ON 25 JUN 2009  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 JUN 2009 HIGHEST RN 1159883-39-2  
DICTIONARY FILE UPDATES: 24 JUN 2009 HIGHEST RN 1159883-39-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>





=> FILE CASREACT  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
4.32	7.62

FULL ESTIMATED COST

FILE 'CASREACT' ENTERED AT 16:29:27 ON 25 JUN 2009  
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

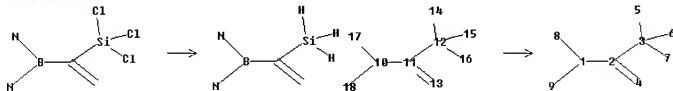
New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
\* \* \* \* \*  
\* CASREACT now has more than 16.5 million reactions \*  
\* \* \* \* \*  
\*\*\*\*\*

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
Uploading C:\WTDH PTAWApplication Examination\Series 10\10 544211\WSTN\WSTN 10 544211 052509AD.str



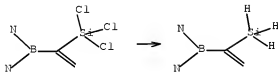
chain nodes :  
2 3 4 5 6 7 11 12 13 14 15 16  
ring/chain nodes :  
1 8 9 10 17 18  
chain bonds :  
1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-12 11-13 12-14 12-15  
12-16  
exact bonds :  
1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-12 11-13 12-14 12-15  
12-16

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS  
 18:CLASS  
 fragments assigned product role:  
 containing 1  
 fragments assigned reactant/reagent role:  
 containing 10

L1 STRUCTURE UPLOADED

=> D  
 L1 HAS NO ANSWERS  
 L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1  
 SAMPLE SEARCH INITIATED 16:29:50 FILE 'CASREACT'  
 SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS  
 100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED VERIFICATIONS: 0 TO 0  
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 ( 0 REACTIONS)

=> S L2 SSS FULL  
 FULL SEARCH INITIATED 16:29:59 FILE 'CASREACT'  
 SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS  
 100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
 SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1 ( 0 REACTIONS)

=> FILE STNG  
 COST IN U.S. DOLLARS SINCE FILE TOTAL  
 ENTRY SESSION  
 FULL ESTIMATED COST 123.61 131.23

FILE 'STNGUIDE' ENTERED AT 16:30:24 ON 25 JUN 2009  
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=> FILE CASREACT		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.07	131.30

FILE 'CASREACT' ENTERED AT 16:31:11 ON 25 JUN 2009  
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
\* \*  
\* CASREACT now has more than 16.5 million reactions \*  
\* \*  
\*\*\*\*\*

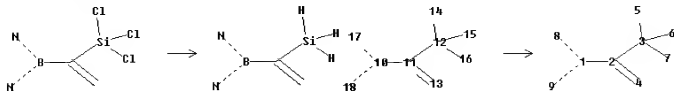
CASREACT contains reactions from CAS and from: ZIC/VINITI database (1974-1999) provided by InfoChem; INPI data prior to 1986; Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich; organic reactions, portions copyright 1996-2006 John Wiley & Sons, Ltd., John Wiley and Sons, Inc., Organic Reactions Inc., and Organic Syntheses Inc. Reproduced under \_\_\_license. All Rights Reserved.

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=>

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052509AE.str



chain nodes :

2 3 4 5 6 7 11 12 13 14 15 16

ring/chain nodes :

1 8 9 10 17 18

chain bonds :

1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-12 11-13 12-14 12-15  
12-16

exact/norm bonds :

1-8 1-9 10-17 10-18

exact bonds :

1-2 2-3 2-4 3-5 3-6 3-7 10-11 11-12 11-13 12-14 12-15 12-16

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

18:CLASS

fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

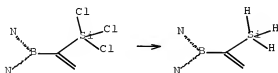
containing 10

L4 STRUCTURE UPLOADED

=> D

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> S

ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):L4

SAMPLE SEARCH INITIATED 16:31:33 FILE 'CASREACT'

SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4 ( 0 REACTIONS)

=> S L4 SSS FULL

FULL SEARCH INITIATED 16:31:46 FILE 'CASREACT'

SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L4 ( 0 REACTIONS)

=> FILE STINGUIDE

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

123.13 254.43

FILE 'STINGUIDE' ENTERED AT 16:31:54 ON 25 JUN 2009

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=> FILE CASREACT

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.84 255.27

FILE 'CASREACT' ENTERED AT 16:39:15 ON 25 JUN 2009

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\*\*\*\*\*  
\* \* \*  
\* CASREACT now has more than 16.5 million reactions \*  
\* \* \*  
\*\*\*\*\*

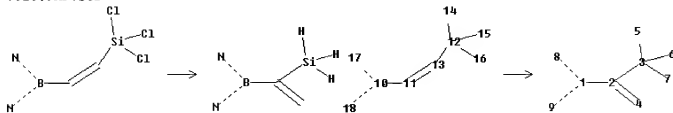
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=>

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chain nodes :

2 3 4 5 6 7 11 12 13 14 15 16

ring/chain nodes :

1 8 9 10 17 18

chain bonds :

1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-13 12-16 12-14 12-15 12-13

exact/norm bonds :

1-8 1-9 10-17 10-18

exact bonds :

1-2 2-3 2-4 3-5 3-6 3-7 10-11 11-13 12-16 12-14 12-15 12-13

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS  
18:CLASS

fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

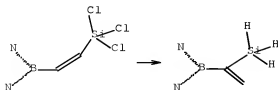
containing 10

L7 STRUCTURE UPLOADED

=> D

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.



=> S L7  
SAMPLE SEARCH INITIATED 16:39:35 FILE 'CASREACT'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS  
  
100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7 ( 0 REACTIONS)

=> S L7 SSS FULL  
FULL SEARCH INITIATED 16:39:42 FILE 'CASREACT'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS  
  
100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L7 ( 0 REACTIONS)

=> FILE STNG  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 123.13 378.40

FILE 'STNGUIDE' ENTERED AT 16:40:02 ON 25 JUN 2009  
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=> FILE CASREACT  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.14 378.54

FILE 'CASREACT' ENTERED AT 16:41:13 ON 25 JUN 2009  
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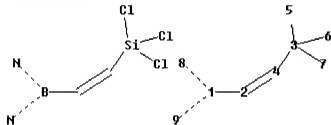
FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

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\*\*\*\*\*  
\* \*  
\* CASREACT now has more than 16.5 million reactions \*  
\* \*  
\*\*\*\*\*

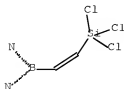
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Uploading C:\YTDH\PTA\Application Examination\Series 10\10 544211\STN\STN 10 544211  
062509AG.str



```
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
fragments assigned reactant/reagent role:
containing 1
```

L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L10

SAMPLE SEARCH INITIATED 16:41:27 FILE 'CASREACT'  
SCREENING COMPLETE - 11 REACTIONS TO VERIFY FROM 2 DOCUMENTS

100.0% DONE 11 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 22 TO 418  
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10 ( 0 REACTIONS)

=> S L11 SSS FUL

FULL SEARCH INITIATED 16:41:34 FILE 'CASREACT'  
SCREENING COMPLETE - 276 REACTIONS TO VERIFY FROM 12 DOCUMENTS

100.0% DONE 276 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L12 0 SEA SSS FUL L10 ( 0 REACTIONS)

=> S L11 SSS FULL

FULL SEARCH INITIATED 16:41:40 FILE 'CASREACT'  
SCREENING COMPLETE - 276 REACTIONS TO VERIFY FROM 12 DOCUMENTS

100.0% DONE 276 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

L13 0 SEA SSS FUL L10 ( 0 REACTIONS)

=> FILE STNG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	245.78	624.32

FILE 'STNGUIDE' ENTERED AT 16:41:56 ON 25 JUN 2009  
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LAST RELOADED: Jun 19, 2009 (20090619/UP).

=> FILE CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.07	624.39

FILE 'CASREACT' ENTERED AT 16:42:42 ON 25 JUN 2009  
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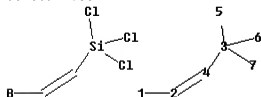
```
*****
*                                     *
*   CASREACT now has more than 16.5 million reactions   *
*                                     *
*****
```

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=>

Uploading C:\TDS\PTA\Application Examination\Series 10\10 544211\STN\STN 10 544211 062509AH.str



```
chain nodes :
2 3 4 5 6 7
ring/chain nodes :
1
chain bonds :
1-2 2-4 3-7 3-5 3-6 3-4
exact bonds :
1-2 2-4 3-7 3-5 3-6 3-4
```

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS  
fragments assigned reactant/reagent role:  
containing 1

L14 STRUCTURE UPLOADED

=> D

L14 HAS NO ANSWERS

L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L14

SAMPLE SEARCH INITIATED 16:42:57 FILE 'CASREACT'  
SCREENING COMPLETE - 28 REACTIONS TO VERIFY FROM 3 DOCUMENTS

100.0% DONE 28 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 243 TO 877  
PROJECTED ANSWERS: 0 TO 0

L15 0 SEA SSS SAM L14 ( 0 REACTIONS)

=> S L14 SSS FULL

FULL SEARCH INITIATED 16:43:09 FILE 'CASREACT'  
SCREENING COMPLETE - 1062 REACTIONS TO VERIFY FROM 35 DOCUMENTS

100.0% DONE 1062 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.02

L16 0 SEA SSS FUL L14 ( 0 REACTIONS)

=> FILE STNG

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	123.13	747.52

FILE 'STNGUIDE' ENTERED AT 16:43:21 ON 25 JUN 2009  
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LAST RELOADED: Jun 19, 2009 (20090619/UP).

=> FILE CASREACT

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	747.73

FILE 'CASREACT' ENTERED AT 16:45:04 ON 25 JUN 2009  
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

```

*****
*
*          CASREACT now has more than 16.5 million reactions
*
*          *
*****

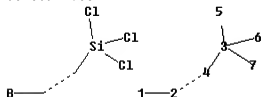
```

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 $\Rightarrow$ 

Uploading C:\TDDH\PTA\Application Examination\Series 10\10 544211\STN\STN 10 544211  
062509AI.str



```
chain nodes :
3 5 6 7
ring/chain nodes :
1 2 4
chain bonds :
1-2 2-4 3-7 3-5 3-6 3-4
exact/norm bonds :
2-4
exact bonds :
1-2 3-7 3-5 3-6 3-4
```

```
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS
fragments assigned reactant/reagent role:
containing 1
```

L17      STRUCTURE UPLOADED

```
=> D
L17 HAS NO ANSWERS
L17          STR
```



Structure attributes must be viewed using STN Express query preparation.

=> S LL17

L18 0 LL17

=> S L17

SAMPLE SEARCH INITIATED 16:45:24 FILE 'CASREACT'

SCREENING COMPLETE - 28 REACTIONS TO VERIFY FROM 3 DOCUMENTS

100.0% DONE 28 VERIFIED 0 HIT RXNS 0 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 243 TO 877

PROJECTED ANSWERS: 0 TO 0

L19 0 SEA SSS SAM L17 ( 0 REACTIONS)

=> S L17 SSS FULL

FULL SEARCH INITIATED 16:45:31 FILE 'CASREACT'

SCREENING COMPLETE - 1062 REACTIONS TO VERIFY FROM 35 DOCUMENTS

100.0% DONE 1062 VERIFIED 0 HIT RXNS 0 DOCS

SEARCH TIME: 00.00.01

L20 0 SEA SSS FUL L17 ( 0 REACTIONS)

=> FILE STNG

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

125.24 872.97

FILE 'STNGUIDE' ENTERED AT 16:45:41 ON 25 JUN 2009

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LAST RELOADED: Jun 19, 2009 (20090619/UP).

=> FILE CASREACT

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.14 873.11

FILE 'CASREACT' ENTERED AT 16:46:43 ON 25 JUN 2009

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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*****
*
*      CASREACT now has more than 16.5 million reactions      *
*
*****
```

CASREACT contains reactions from CAS and from: ZIC/VINITI database (1974-1999) provided by InfoChem; INPI data prior to 1986; Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich; organic reactions, portions copyright 1996-2006 John Wiley & Sons, Ltd., John Wiley and Sons, Inc., Organic Reactions Inc., and Organic Syntheses Inc. Reproduced under license. All Rights Reserved.

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=>

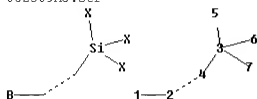
=>





=>

Uploading C:\WTDH PTA\WApplication Examination\Series 10\W10 544211\WSTN\WSTN 10 544211  
062509AJ.str



chain nodes :

3 5 6 7

ring/chain nodes :

1 2 4

chain bonds :

1-2 2-4 3-7 3-5 3-6 3-4

exact/norm bonds :

2-4

exact bonds :

1-2 3-7 3-5 3-6 3-4

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS

fragments assigned reactant/reagent role:

containing 1

L21 STRUCTURE UPLOADED

=> D

L21 HAS NO ANSWERS

L21 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L21

SAMPLE SEARCH INITIATED 16:46:59 FILE 'CASREACT'

SCREENING COMPLETE - 125 REACTIONS TO VERIFY FROM 4 DOCUMENTS

100.0% DONE 125 VERIFIED 0 HIT RXNS

0 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

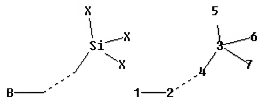
BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 1830 TO 3170  
PROJECTED ANSWERS: 0 TO 0

L22 0 SEA SSS SAM L21 ( 0 REACTIONS)

=> DEL HIS  
DELETE ALL L# ITEMS? (Y)/N:Y

=>  
Uploading C:\WTDH\PTA\WApplication Examination\Series 10\W10 544211\WSTN\WSTN 10 544211  
062509AJ.str



chain nodes :  
3 5 6 7  
ring/chain nodes :  
1 2 4  
chain bonds :  
1-2 2-4 3-7 3-5 3-6 3-4  
exact/norm bonds :  
2-4  
exact bonds :  
1-2 3-7 3-5 3-6 3-4

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS  
fragments assigned reactant/reagent role:  
containing 1

L1 STRUCTURE UPLOADED

=> D  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1  
SAMPLE SEARCH INITIATED 16:47:37 FILE 'CASREACT'  
SCREENING COMPLETE - 125 REACTIONS TO VERIFY FROM 4 DOCUMENTS

100.0% DONE 125 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 1830 TO 3170  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 ( 0 REACTIONS)

=> S L1 SSS FULL

FULL SEARCH INITIATED 16:47:53 FILE 'CASREACT'  
SCREENING COMPLETE - 2892 REACTIONS TO VERIFY FROM 149 DOCUMENTS

100.0% DONE 2892 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.02

L3 0 SEA SSS FUL L1 ( 0 REACTIONS)

=> FILE STNG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	123.61	996.72

FILE 'STNGUIDE' ENTERED AT 16:48:02 ON 25 JUN 2009  
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=> FILE CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.35	997.07

FILE 'CASREACT' ENTERED AT 16:51:11 ON 25 JUN 2009  
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
\* \* \* \* \*  
\* CASREACT now has more than 16.5 million reactions \*  
\* \* \* \* \*  
\*\*\*\*\*

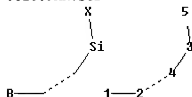
CASREACT contains reactions from CAS and from: ZIC/VINITI database (1974-1999) provided by InfoChem; INPI data prior to 1986; Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich; organic reactions, portions copyright 1996-2006 John Wiley & Sons, Ltd., John Wiley and Sons, Inc.,

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=>

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chain nodes :

3 5

ring/chain nodes :

1 2 4

chain bonds :

1-2 2-4 3-4 3-5

exact/norm bonds :

2-4

exact bonds :

1-2 3-4 3-5

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS

fragments assigned reactant/reagent role:

containing 1

L4 STRUCTURE UPLOADED

=> D

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L4

SAMPLE SEARCH INITIATED 16:51:31 FILE 'CASREACT'

SCREENING COMPLETE - 344 REACTIONS TO VERIFY FROM 16 DOCUMENTS

100.0% DONE 344 VERIFIED 45 HIT RXNS

2 DOCS

SEARCH TIME: 00.00.01

11 DOCS

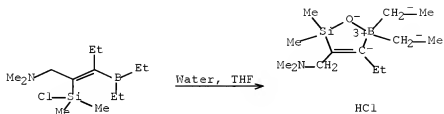
SEARCH TIME: 00.00.02

L6 11 SEA SSS FUL L4 ( 121 REACTIONS)

=> D L6 1-11

L6 ANSWER 1 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(2) OF 7

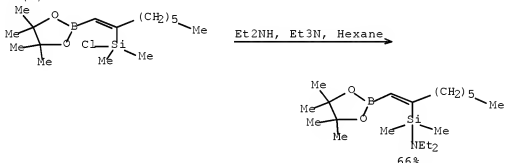


H<sup>+</sup>

REF: Applied Organometallic Chemistry, 21(8), 676-681; 2007  
 CON: STAGE(1) room temperature -> -78 deg C;  
 -78 deg C -> room temperature

L6 ANSWER 2 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

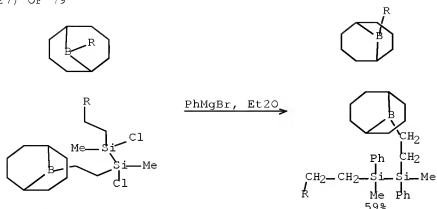
RX(7) OF 34



REF: Journal of the American Chemical Society, 130(5), 1526-1527;  
 2008  
 CON: 3 days, room temperature

L6 ANSWER 3 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

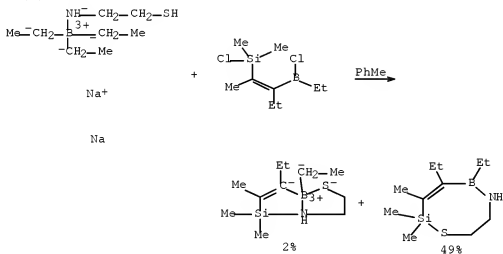
RX(27) OF 79



REF: Silicon Chemistry, 2(5/6), 255-264; 2005  
CON: 5 hours, reflux

L6 ANSWER 4 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(1) OF 18

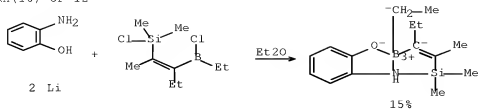


REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 50(6), 959-969; 1995  
NOTE: other product(s) also detected

L6 ANSWER 5 OF 11 CASREACT COPYRIGHT 2009 ACS on STN



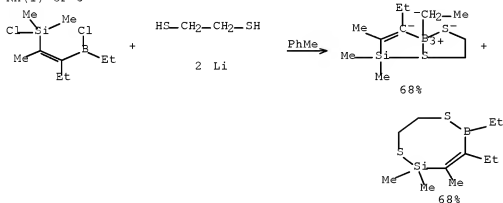
RX(10) OF 12



REF: Chemische Berichte, 123(12), 2287-301; 1990

L6 ANSWER 6 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

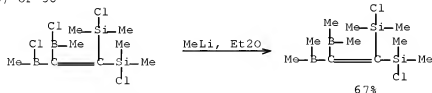
RX(1) OF 3



REF: Chemische Berichte, 123(11), 2109-16; 1990

L6 ANSWER 7 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(8) OF 38

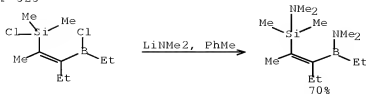


REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 44(10), 1179-86; 1989

NOTE: Petroleum ether solvent

L6 ANSWER 8 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

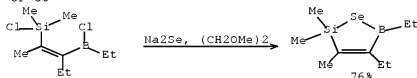
RX(15) OF 325



REF: Chemische Berichte, 122(10), 1825-50; 1989

L6 ANSWER 9 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(1) OF 56



REF: Chemische Berichte, 121(11), 1955-66; 1988

L6 ANSWER 10 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(2) OF 45 - REACTION DIAGRAM NOT AVAILABLE

L6 ANSWER 11 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

=> FILE CASREACT  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
159.97	1157.04

FILE 'CASREACT' ENTERED AT 16:59:49 ON 25 JUN 2009  
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

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\*\*\*\*\*  
\*  
\* CASREACT now has more than 16.5 million reactions \*  
\*  
\*\*\*\*\*

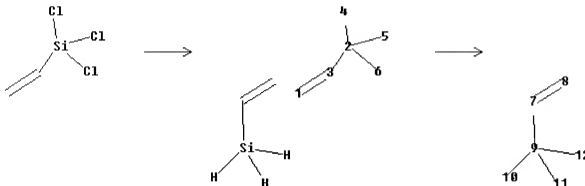
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=>

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062509AL.str

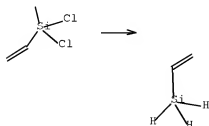


chain nodes :  
2 4 5 6 9 10 11 12  
ring/chain nodes :  
1 3 7 8  
chain bonds :  
1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12  
exact bonds :  
1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS  
fragments assigned product role:  
containing 7  
fragments assigned reactant/reagent role:  
containing 1  
node mappings:  
1:7 1:7

L7 STRUCTURE UPLOADED

=> D  
L7 HAS NO ANSWERS  
L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L7

SAMPLE SEARCH INITIATED 17:00:13 FILE 'CASREACT'  
SCREENING COMPLETE - 294 REACTIONS TO VERIFY FROM 29 DOCUMENTS

100.0% DONE 294 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 4852 TO 6908

PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7 ( 0 REACTIONS)

=> S L7 SSS FULL

FULL SEARCH INITIATED 17:00:22 FILE 'CASREACT'  
SCREENING COMPLETE - 7559 REACTIONS TO VERIFY FROM 637 DOCUMENTS

100.0% DONE 7559 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.04

L9 0 SEA SSS FUL L7 ( 0 REACTIONS)

=> FILE STNG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	123.13	1280.17

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LAST RELOADED: Jun 19, 2009 (20090619/UP).

=> FILE CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.14	1280.31

FILE 'CASREACT' ENTERED AT 17:02:03 ON 25 JUN 2009  
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
\* \*  
\* CASREACT now has more than 16.5 million reactions \*  
\* \*

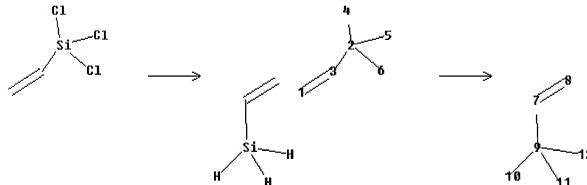
\*\*\*\*\*

CASREACT contains reactions from CAS and from: ZIC/VINITI database (1974-1999) provided by InfoChem; INPI data prior to 1986; Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich; organic reactions, portions copyright 1996-2006 John Wiley & Sons, Ltd., John Wiley and Sons, Inc., Organic Reactions Inc., and Organic Syntheses Inc. Reproduced under license. All Rights Reserved.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

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chain nodes :

2 4 5 6 9 10 11 12

ring/chain nodes :

1 3 7 8

chain bonds :

1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12

exact bonds :

1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS

fragments assigned product role:

containing 7

fragments assigned reactant/reagent role:

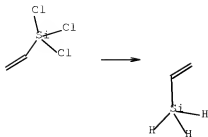
containing 1

L10 STRUCTURE UPLOADED

=> D

L10 HAS NO ANSWERS

L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L10

SAMPLE SEARCH INITIATED 17:02:39 FILE 'CASREACT'  
SCREENING COMPLETE - 294 REACTIONS TO VERIFY FROM 29 DOCUMENTS

100.0% DONE 294 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS: 4852 TO 6908

PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10 ( 0 REACTIONS)

=> S L10 SSS FULL

FULL SEARCH INITIATED 17:02:54 FILE 'CASREACT'  
SCREENING COMPLETE - 7559 REACTIONS TO VERIFY FROM 637 DOCUMENTS

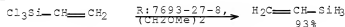
100.0% DONE 7559 VERIFIED 3 HIT RXNS 3 DOCS  
SEARCH TIME: 00.00.01

L12 3 SEA SSS FUL L10 ( 3 REACTIONS)

=> D L12

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

RX(2) OF 2



REF: Ger., 4313130, 26 May 1994

=> D L12 1-3 BIB ABS HITSTR

'HITSTR' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE, Single-step Reactions



APPS ----- AI, PRAI  
 BIB ----- AN, plus Bibliographic Data  
 CAN ----- List of CA abstract numbers without answer numbers  
 CBIB ----- AN, plus Compressed Bibliographic Data  
 DALL ----- ALL, delimited (end of each field identified)  
 IABS ----- ABS, indented with text labels  
 IALL ----- ALL, indented with text labels  
 IBIB ----- BIB, indented with text labels  
 IND ----- Indexing data  
 IPC ----- International Patent Classifications  
 ISTD ----- STD, indented with text labels  
 OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels  
  
 SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations  
  
 MAX ----- Same as ALL  
 PATS ----- PI, SO  
 SCAN ----- TI and FCRD (random display, no answer number. SCAN  
                   must be entered on the same line as DISPLAY, e.g.,  
                   D SCAN.)  
 SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for  
                   all single-step reactions)  
 STD ----- BIB, IPC, and NCL  
  
 CRD ----- Compact Display of All Hit Reactions  
 CRDREF ----- Compact Reaction Display and SO, PY for Reference  
 FHIT ----- Reaction Map, Diagram, and Summary for first  
                   hit reaction  
 FHITCBIB --- FHIT, AN plus CBIB  
 FCRD ----- First hit in Compact Reaction Display (CRD) format  
 FCRDREF ---- First hit in Compact Reaction Display (CRD) format with  
                   CA reference information (SO, PY). (Default)  
 FPATH ----- PATH, plus Reaction Summary for the "long path"  
 FSPATH ----- SPATH, plus Reaction Summary for the "short path"  
 HIT ----- Reaction Map, Reaction Diagram, and Reaction  
                   Summary for all hit reactions and fields containing  
                   hit terms  
 OCC ----- All hit fields and the number of occurrences of the  
                   hit terms in each field. Includes total number of  
                   HIT, PATH, SPATH reactions. Labels reactions that have  
                   incomplete verifications.  
 PATH ----- Reaction Map and Reaction Diagram for the "long  
                   path". Displays all hit reactions, except those  
                   whose steps are totally included within another hit  
                   reaction which is displayed  
 RX ----- Hit Reactions (Map, Diagram, Summary for all hit reactions)  
 RXG ----- Hit Reaction Graphics (Map and Diagram for all hit reactions)  
 RXL ----- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)  
 RXS ----- Hit Reaction Summaries (Map and Summary for all hit reactions)  
 SPATH ----- Reaction Map and Reaction Diagram for the "short  
                   path". Displays all single step reactions which  
                   contain a hit substance. Also displays those  
                   multistep reactions that have a hit substance in both  
                   the first and last steps of the reaction, except for  
                   those hit reactions whose steps are totally included  
                   within another hit reaction which is displayed

To display a particular field or fields, enter the display field

codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, XRS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):S L10 SSS FULL  
'S' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE, Single-step Reactions  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
DALL ----- ALL, delimited (end of each field identified)  
IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
ISTD ----- STD, indented with text labels  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
MAX ----- Same as ALL  
PATS ----- PI, SO  
SCAN ----- TI and FCRD (random display, no answer number. SCAN must be entered on the same line as DISPLAY, e.g., D SCAN.)  
SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for all single-step reactions)  
STD ----- BIB, IPC, and NCL  
  
CRD ----- Compact Display of All Hit Reactions  
CRDREF ----- Compact Reaction Display and SO, PY for Reference  
FHIT ----- Reaction Map, Diagram, and Summary for first hit reaction  
FHITCBIB --- FHIT, AN plus CBIB  
FCRD ----- First hit in Compact Reaction Display (CRD) format  
FCRDREF ----- First hit in Compact Reaction Display (CRD) format with CA reference information (SO, PY). (Default)  
FPATH ----- PATH, plus Reaction Summary for the "long path"  
FSPATH ----- SPATH, plus Reaction Summary for the "short path"  
HIT ----- Reaction Map, Reaction Diagram, and Reaction Summary for all hit reactions and fields containing hit terms  
OCC ----- All hit fields and the number of occurrences of the hit terms in each field. Includes total number of HIT, PATH, SPATH reactions. Labels reactions that have incomplete verifications.  
PATH ----- Reaction Map and Reaction Diagram for the "long path". Displays all hit reactions, except those

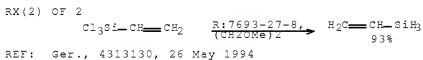
whose steps are totally included within another hit reaction which is displayed

RX ----- Hit Reactions (Map, Diagram, Summary for all hit reactions)  
 RXG ----- Hit Reaction Graphics (Map and Diagram for all hit reactions)  
 RXL ----- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)  
 RXS ----- Hit Reaction Summaries (Map and Summary for all hit reactions)  
 SPATH ----- Reaction Map and Reaction Diagram for the "short path". Displays all single step reactions which contain a hit substance. Also displays those multistep reactions that have a hit substance in both the first and last steps of the reaction, except for those hit reactions whose steps are totally included within another hit reaction which is displayed

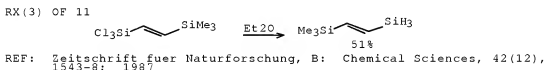
To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):  
 ENTER DISPLAY FORMAT (FCRDREF):FCRDREF

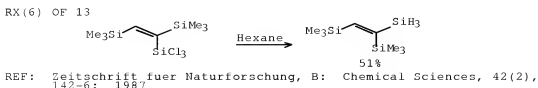
L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS ON STN



L12 ANSWER 2 OF 3 CASREACT COPYRIGHT 2009 ACS ON STN



L12 ANSWER 3 OF 3 CASREACT COPYRIGHT 2009 ACS ON STN



=> FILE CAPLUS  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
137.29	1417.60

FULL ESTIMATED COST

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FILE COVERS 1907 - 25 Jun 2009 VOL 150 ISS 26  
FILE LAST UPDATED: 24 Jun 2009 (20090624/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L12 1-2  
MISSING OPERATOR L12 1-2  
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> S L12  
L13 3 L12

=> D L12 IBIB ABS HIT  
YOU HAVE REQUESTED DATA FROM FILE 'CASREACT' - CONTINUE? (Y)/N:Y

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS ON STN  
ACCESSION NUMBER: 121:57701 CASREACT Full-text  
TITLE: Preparation of organosilanes from haloorganosilanes in the presence of magnesium hydride and ether solvents  
INVENTOR(S): Klein, Klaus Dieter; Knott, Wilfried; Koerner, Goetz  
PATENT ASSIGNEE(S): Th. Goldschmidt AG, Germany

SOURCE: Ger., 4 pp.  
 CODEN: GWXXAW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

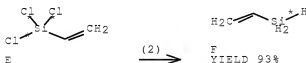
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4313130	C1	19940526	DE 1993-4313130	19930422
EP 621280	A1	19941026	EP 1994-105523	19940409
EP 621280	B1	19980819		
R: BE, DE, FR, GB, IT, NL				
US 5455367	A	19951003	US 1994-229966	19940419
JP 06321959	A	19941122	JP 1994-81892	19940420
JP 2564096	B2	19961218		
CA 2121931	A1	19941023	CA 1994-2121931	19940422
CA 2121931	C	19980616		

PRIORITY APPLN. INFO.: DE 1993-4313130 19930422  
 OTHER SOURCE(S): MARPAT 121:57701

AB Organosilanes (e.g.,  $\text{H}_2\text{C}:\text{CHSiH}_3$ ), contg.  $\geq 1$  SiH bond, are prepd. in high yield by reacting nonpyrophoric, storage  $\text{MgH}_2$  in an ether solvent (e.g., THF, 1,2-dimethoxyethane) with an organosilicon halide (e.g.,  $\text{H}_2\text{C}:\text{CHSiCl}_3$ ) and continuously removing the formed Mg halide particles from the  $\text{MgH}_2$  surface by mech. means or ultrasonics.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RX(2) OF 2 E ==> F



RX(2) RCT E 75-94-5  
 RGT C 7693-27-8 Magnesium hydride ( $\text{MgH}_2$ )  
 PRO F 7291-09-0  
 SOL 110-71-4 ( $\text{CH}_2\text{OMe}$ )<sub>2</sub>

=> D L12 IBIB ABS HITSTR 1-3  
 YOU HAVE REQUESTED DATA FROM FILE 'CASREACT' - CONTINUE? (Y)/N:Y

'HITSTR' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS ----- GI and AB  
 ALL ----- BIB, AB, IND, RE, Single-step Reactions  
 APPS ----- AI, PRAI  
 BIB ----- AN, plus Bibliographic Data  
 CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data  
 DALL ----- ALL, delimited (end of each field identified)  
 IABS ----- ABS, indented with text labels  
 IALL ----- ALL, indented with text labels  
 IBIB ----- BIB, indented with text labels  
 IND ----- Indexing data  
 IPC ----- International Patent Classifications  
 ISTD ----- STD, indented with text labels  
 OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels  
  
 SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations  
  
 MAX ----- Same as ALL  
 PATS ----- PI, SO  
 SCAN ----- TI and FCRD (random display, no answer number. SCAN  
               must be entered on the same line as DISPLAY, e.g.,  
               D SCAN.)  
 SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for  
               all single-step reactions)  
 STD ----- BIB, IPC, and NCL  
  
 CRD ----- Compact Display of All Hit Reactions  
 CRDREF ----- Compact Reaction Display and SO, PY for Reference  
 FHIT ----- Reaction Map, Diagram, and Summary for first  
               hit reaction  
 FHITCBIB --- FHIT, AN plus CBIB  
 FCRD ----- First hit in Compact Reaction Display (CRD) format  
 FCRDREF --- First hit in Compact Reaction Display (CRD) format with  
               CA reference information (SO, PY). (Default)  
 FPATH ----- PATH, plus Reaction Summary for the "long path"  
 FSPATH ----- SPATH, plus Reaction Summary for the "short path"  
 HIT ----- Reaction Map, Reaction Diagram, and Reaction  
               Summary for all hit reactions and fields containing  
               hit terms  
 OCC ----- All hit fields and the number of occurrences of the  
               hit terms in each field. Includes total number of  
               HIT, PATH, SPATH reactions. Labels reactions that have  
               incomplete verifications.  
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               path". Displays all hit reactions, except those  
               whose steps are totally included within another hit  
               reaction which is displayed  
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               contain a hit substance. Also displays those  
               multistep reactions that have a hit substance in both  
               the first and last steps of the reaction, except for  
               those hit reactions whose steps are totally included  
               within another hit reaction which is displayed

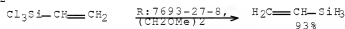
To display a particular field or fields, enter the display field  
 codes. For a list of the display field codes, enter HELP DFIELDS  
 at an arrow prompt (=>). Examples of combinations include: D TI;  
 D BIB RX; D TI, AU, FCRD. The information is displayed in the same order

as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):FCRDREF

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

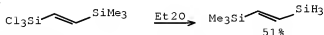
RX(2) OF 2



REF: Ger., 4313130, 26 May 1994

L12 ANSWER 2 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

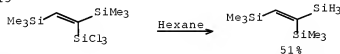
RX(3) OF 11



REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 42(12), 1543-8; 1987

L12 ANSWER 3 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

RX(6) OF 13



REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 42(2), 142-6; 1987

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.50 1436.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

ENTRY SESSION

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FILE COVERS 1907 - 25 Jun 2009 VOL 150 ISS 26  
FILE LAST UPDATED: 24 Jun 2009 (20090624/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L12  
L14 3 L12

=> D L14 1-3 IBIB ABS HITSTR

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:457701 CAPLUS Full-text

DOCUMENT NUMBER: 121:57791

ORIGINAL REFERENCE NO.: 121:10413a,10416a

TITLE: Preparation of organosilanes from haloorganosilanes in the presence of magnesium hydride and ether solvents

INVENTOR(S): Klein, Klaus Dieter; Knott, Wilfried; Koerner, Goetz

PATENT ASSIGNEE(S): Th. Goldschmidt AG, Germany

SOURCE: Ger., 4 pp.  
CODEN: GWXXAW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4313130	C1	19940526	DE 1993-4313130	19930422
EP 621280	A1	19941026	EP 1994-105523	19940409
EP 621280	B1	19980819		
R: BE, DE, FR, GB, IT, NL				
US 5455367	A	19951003	US 1994-229966	19940419
JP 06321959	A	19941122	JP 1994-81892	19940420
JP 2564096	B2	19961218		
CA 2121931	A1	19941023	CA 1994-2121931	19940422
CA 2121931	C	19980616		

PRIORITY APPLN. INFO.: DE 1993-4313130 A 19930422

OTHER SOURCE(S): CASREACT 121:57701; MARPAT 121:57701

AB Organosilanes (e.g., H<sub>2</sub>C:CHSiH<sub>3</sub>), contg. ≥1 SiH bond, are prepd. in high yield by reacting nonpyrophoric, storage MgH<sub>2</sub> in an ether solvent (e.g., THF, 1,2-dimethoxyethane) with an organosilicon halide (e.g., H<sub>2</sub>C:CHSiCl<sub>3</sub>) and continuously removing the formed Mg halide particles from the MgH<sub>2</sub> surface by mech. means or ultrasonics.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1989:154363 CAPLUS Full-text

DOCUMENT NUMBER: 110:154363

ORIGINAL REFERENCE NO.: 110:25535a,25538a

TITLE: Synthesis and spectroscopic characterization of di- and trisilylethenes

AUTHOR(S): Schmidbaur, H.; Ebenhoech, J.

CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching, D-8046, Fed. Rep. Ger.

SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1987), 42(12), 1543-8

CODEN: ZNBSEN; ISSN: 0932-0776

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 110:154363

AB Di- and trisilylethenes have been prepd. by catalytic hydrosilylation of trimethylsilyl-, bis(trimethylsilyl)-, and bis(trichlorosilyl)ethyne and converted into the hydrogenated derivs. by LiAlH<sub>4</sub>-reduction. The stereochem. of the products and the effects of substitution of Me vs. chlorine ligands on the NMR coupling consts. J(29Si/1H) have been investigated by anal. of selectively (Me)-decoupled 29Si NMR spectra. The catalytic hydrosilylation of silylated ethynes proceeds in a stereospecific syn fashion yielding trans adducts. Substitution of Me by chlorine at one or two Si-atoms in tris(trimethylsilyl)ethene leads to an increase of the coupling constant J(29Si/1H vinyl) with the chlorinated Si-atoms and reduces the values for those Si-Atoms, where Me groups are retained.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1988:21954 CAPLUS Full-text

DOCUMENT NUMBER: 108:21954

ORIGINAL REFERENCE NO.: 108:3731a,3734a

TITLE: Synthesis, properties, and structure of some silylethenes

AUTHOR(S): Schmidbaur, Hubert; Ebenhoech, Jan; Mueller, Gerhard

CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching, D-8046, Fed. Rep. Ger.

SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1987), 42(2), 142-6

CODEN: ZNBSEN; ISSN: 0932-0776

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 108:21954

AB trans-1,2-Dichloro-1,2-bis(trichlorosilyl)ethene was prepd. from Cl<sub>3</sub>CSiCl<sub>3</sub> and Cu powder, and its structure determined by single crystal X-ray diffraction. Cl<sub>3</sub>SiC.tpbond.CSiCl<sub>3</sub> forms a Co cage cluster on reaction with Co<sub>2</sub>(CO)<sub>8</sub> formulated as (CO)<sub>6</sub>Co<sub>2</sub>C<sub>2</sub>(SiCl<sub>3</sub>)<sub>2</sub>. Hydrosilylation with HSiCl<sub>3</sub> gives tris(trichlorosilyl)ethene. Bis(trimethylsilyl)ethyne adds HSiCl<sub>3</sub> to form 1-(trichlorosilyl)-1,2-bis(trimethylsilyl)ethene, which can be converted into the hydride with (Me<sub>2</sub>CHCH<sub>2</sub>)<sub>2</sub>AlH. All compds. are model systems for CVD production of amorphous silicon a-SiC.

=> D L14 1-3 IBIB ABS HIT

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:457701 CAPLUS Full-text  
 DOCUMENT NUMBER: 121:57701  
 ORIGINAL REFERENCE NO.: 121:10413a,10416a  
 TITLE: Preparation of organosilanes from haloorganosilanes in the presence of magnesium hydride and ether solvents  
 INVENTOR(S): Klein, Klaus Dieter; Knott, Wilfried; Koerner, Goetz  
 PATENT ASSIGNEE(S): Th. Goldschmidt AG, Germany  
 SOURCE: Ger., 4 pp.  
 CODEN: GWXXAW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4313130	C1	19940526	DE 1993-4313130	19930422
EP 621280	A1	19941026	EP 1994-105523	19940409
EP 621280	B1	19980819		
R: BE, DE, FR, GB, IT, NL				
US 5455367	A	19951003	US 1994-229966	19940419
JP 06321959	A	19941122	JP 1994-81892	19940420
JP 2564096	B2	19961218		
CA 2121931	A1	19941023	CA 1994-2121931	19940422
CA 2121931	C	19980616		

PRIORITY APPLN. INFO.: DE 1993-4313130 A 19930422  
 OTHER SOURCE(S): CASREACT 121:57701; MARPAT 121:57701  
 AB Organosilanes (e.g., H<sub>2</sub>C:CHSiH<sub>3</sub>), contg. ≥1 SiH bond, are prep'd. in high yield by reacting nonpyrophoric, storage MgH<sub>2</sub> in an ether solvent (e.g., THF, 1,2-dimethoxyethane) with an organosilicon halide (e.g., H<sub>2</sub>C:CHSiCl<sub>3</sub>) and continuously removing the formed Mg halide particles from the MgH<sub>2</sub> surface by mech. means or ultrasonics.  
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 AN 1994:457701 CAPLUS Full-text  
 DN 121:57701  
 OREF 121:10413a,10416a

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1989:154363 CAPLUS Full-text  
 DOCUMENT NUMBER: 110:154363  
 ORIGINAL REFERENCE NO.: 110:25535a,25538a  
 TITLE: Synthesis and spectroscopic characterization of di- and trisilylenes  
 AUTHOR(S): Schmidbaur, H.; Ebenhoech, J.  
 CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching, D-8046, Fed. Rep. Ger.  
 SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1987), 42(12), 1543-8  
 CODEN: ZNBSEN; ISSN: 0932-0776  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 110:154363

AB Di- and trisilylenes have been prep'd. by catalytic hydrosilylation of trimethylsilyl-, bis(trimethylsilyl)-, and bis(trichlorosilyl)ethyne and converted into the hydrogenated derivs. by LiAlH<sub>4</sub>-reduction. The stereochem. of the products and the effects of substitution of Me vs. chlorine ligands on the NMR coupling consts. J(29Si/1H) have been investigated by anal. of selectively (Me)-decoupled 29Si NMR spectra. The catalytic hydrosilylation of silylated ethynes proceeds in a stereospecific syn fashion yielding trans adducts. Substitution of Me by chlorine

at one or two Si-atoms in tris(trimethylsilyl)ethene leads to an increase of the coupling constant J(29Si/1H vinyl) with the chlorinated Si-atoms and reduces the values for those Si-Atoms, where Me groups are retained.

AN 1989:154363 CAPLUS Full-text

DN 110:154363

OREF 110:25535a,25538a

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1988:21954 CAPLUS Full-text

DOCUMENT NUMBER: 108:21954

ORIGINAL REFERENCE NO.: 108:3731a,3734a

TITLE: Synthesis, properties, and structure of some  
silylethenes

AUTHOR(S): Schmidbaur, Hubert; Ebenhoech, Jan; Mueller, Gerhard

CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching,  
D-8046, Fed. Rep. Ger.

SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences  
(1987), 42(2), 142-6

CODEN: ZNBSEN; ISSN: 0932-0776

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 108:21954

AB trans-1,2-Dichloro-1,2-bis(trichlorosilyl)ethene was prepd. from Cl3CSiCl3 and Cu powder, and its structure determined by single crystal X-ray diffraction. Cl3SiC.tpbond.CSiCl3 forms a Co cage cluster on reaction with Co2(CO)8 formulated as (CO)6Co2C2(SiCl3)2. Hydrosilylation with HSiCl3 gives tris(trichlorosilyl)ethene. Bis(trimethylsilyl)ethyne adds HSiCl3 to form 1-(trichlorosilyl)-1,2-bis(trimethylsilyl)ethene, which can be converted into the hydride with (Me2CHCH2)2AlH. All compds. are model systems for CVD production of amorphous silicon a-Si-C.

AN 1988:21954 CAPLUS Full-text

DN 108:21954

OREF 108:3731a,3734a

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

19.00	1455.40
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-4.92	-5.70
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FILE 'STNGUIDE' ENTERED AT 17:07:39 ON 25 JUN 2009

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jun 19, 2009 (20090619/UP).

=> FILE HOLD

'HOLD' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'STNGUIDE'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> LOG HOLD

```

(FILE 'CASREACT' ENTERED AT 16:46:43 ON 25 JUN 2009)
      DEL HIS
      STRUCTURE UPLOADED
L1      D
      0 SEA FILE=CASREACT SSS SAM L1 (    0 REACTIONS)
L2      0 SEA FILE=CASREACT SSS FUL L1 (    0 REACTIONS)
L3      0 SEA FILE=CASREACT SSS FUL L1 (    0 REACTIONS)

FILE 'STNGUIDE' ENTERED AT 16:48:02 ON 25 JUN 2009

FILE 'CASREACT' ENTERED AT 16:51:11 ON 25 JUN 2009
L4      STRUCTURE UPLOADED
      D
L5      2 SEA FILE=CASREACT SSS SAM L4 (   45 REACTIONS)
      D SCAN
L6      11 SEA FILE=CASREACT SSS FUL L4 (  121 REACTIONS)
      D L6 1-11

FILE 'CASREACT' ENTERED AT 16:59:49 ON 25 JUN 2009
L7      STRUCTURE UPLOADED
      D
L8      0 SEA FILE=CASREACT SSS SAM L7 (    0 REACTIONS)
L9      0 SEA FILE=CASREACT SSS FUL L7 (    0 REACTIONS)

FILE 'STNGUIDE' ENTERED AT 17:00:40 ON 25 JUN 2009

FILE 'CASREACT' ENTERED AT 17:02:03 ON 25 JUN 2009
L10     STRUCTURE UPLOADED
      D
L11     0 SEA FILE=CASREACT SSS SAM L10 (    0 REACTIONS)
L12     3 SEA FILE=CASREACT SSS FUL L10 (    3 REACTIONS)
      D L12
      D L12 1-3 BIB ABS HITSTR

FILE 'CAPLUS' ENTERED AT 17:05:02 ON 25 JUN 2009
L13     3 SEA FILE=CAPLUS SPE=ON PLU=ON L12

FILE 'CASREACT' ENTERED AT 17:05:27 ON 25 JUN 2009
      D L12 IBIB ABS HIT

FILE 'CAPLUS' ENTERED AT 17:05:28 ON 25 JUN 2009

FILE 'CASREACT' ENTERED AT 17:05:54 ON 25 JUN 2009
      D L12 IBIB ABS HITSTR 1-3

FILE 'CAPLUS' ENTERED AT 17:06:05 ON 25 JUN 2009

FILE 'CAPLUS' ENTERED AT 17:06:12 ON 25 JUN 2009
L14     3 SEA FILE=CAPLUS SPE=ON PLU=ON L12
      D L14 1-3 IBIB ABS HITSTR
      D L14 1-3 IBIB ABS HIT

FILE 'STNGUIDE' ENTERED AT 17:07:39 ON 25 JUN 2009
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY  SESSION
FULL ESTIMATED COST          0.35   1455.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                                ENTRY  SESSION
CA SUBSCRIBER PRICE          0.00   -5.70

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SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:10:38 ON 25 JUN 2009